

L8 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1995:347076 BIOSIS
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 TI The effect of a probiotic on faecal and liver lipid classes in rats.
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 SO British Journal of Nutrition, (1995) Vol. 73, No. 5, pp. 701-710.
 ISSN: 0007-1145.
 DT Article
 LA English
 AB The effect of a probiotic composed of **Bacillus**, *Lactobacillus*,
Streptococcus, *Saccharomyces* and *Candida* species (each at 10-7-8
 colony-forming units (cfu)/g rice bran), given at a level of 150 g/kg
 diet
 for 6 weeks, on lipid metabolism was examined in the faeces, serum and
 liver of male rats. Liver weight decreased 35% in the rats fed on a
 high-fat, high-**cholesterol** diet containing the probiotic. Total
cholesterol concentration in the serum was significantly lower in
 the probiotic group than in the control group throughout the experimental
 period in rats fed on the high-fat, high-**cholesterol** diet, and
HDL-cholesterol concentration was significantly higher
 (P lt 0.05) in the probiotic group than in the control group which was
 fed
 for the 6 week experimental period on a basal diet. The serum VLDL + IDL
 +
 LDL **cholesterol** concentrations in the probiotic groups were
 reduced compared with those of the corresponding control groups. The
 probiotic groups fed on the high-fat, high-**cholesterol** diet and
 the basal diet had lower hepatic **cholesterol** concentrations than
 did the corresponding control groups (P lt 0.05). Hydroxymethylglutaryl
 coenzyme A reductase (NADPH) (EC 1.1.1.34) activity in the liver was
 lower
 in rats fed on the high-fat, high-**cholesterol** diet with the
 probiotic. The neutral and acidic steroid concentrations in faeces were
 higher in the probiotic group than in the control group fed on the
 high-fat, high-**cholesterol** diet. *Escherichia coli* decreased and
Bifidobacterium and *Eubacterium* increased in the faecal microflora of
 rats
 fed on the dietary probiotic. *Lactobacillus* in the probiotic groups was
 higher than that in the control groups. The present study shows that the
 probiotic promotes *Bifidobacterium* and *Eubacterium* in the faecal
 microflora, and reduces **cholesterol** levels in the serum and
 liver of rats.

(FILE 'HOME' ENTERED AT 07:25:06 ON 05 SEP 2001)

FILE 'BIOSIS' ENTERED AT 07:25:15 ON 05 SEP 2001

L1 64237 S BACILLUS

L2 56 S SPOROLACTOBACILLUS

L3 143 S (L1 OR L2) AND ?CHOLESTEROL?

L4 106 S (L1 OR L2) (S) ?CHOLESTEROL?

L5 4 S L2 AND P44

L6 11 S L1 AND LAEVOLACTICUS

FILE 'STNGUIDE' ENTERED AT 07:28:37 ON 05 SEP 2001

L7 0 S L3 AND HDL

FILE 'BIOSIS' ENTERED AT 07:36:57 ON 05 SEP 2001

L8 3 S L3 AND HDL

FILE 'STNGUIDE' ENTERED AT 07:39:48 ON 05 SEP 2001

L9 0 S CHOLIC ACID

FILE 'BIOSIS' ENTERED AT 07:43:03 ON 05 SEP 2001

L10 4258 S CHOLIC ACID

L11 1336 S L10 AND ?CHOLESTEROL?

L12 467 S (CALCIUM CITRATE) OR (POTASSIUM GLUCONATE) OR (MAGNESIUM CITR

L13 2 S L12 AND ?CHOLESTEROL?

L14 1276 S L10 (L) ?CHOLESTEROL?

L15 1063 S L10 (S) ?CHOLESTEROL?

L16 78 S L14 AND HDL

L17 73 S L10 (L) ?CHOLESTEROL? (L) HDL

FILE 'STNGUIDE' ENTERED AT 07:51:35 ON 05 SEP 2001

FILE 'BIOSIS' ENTERED AT 07:53:52 ON 05 SEP 2001

L18 25 S (INCREASE OR IMPROVE) (L) HDL (L) ?CHOLESTEROL? (L) (CHOLIC

A

FILE 'STNGUIDE' ENTERED AT 07:58:19 ON 05 SEP 2001

FILE 'BIOSIS' ENTERED AT 08:10:18 ON 05 SEP 2001

L19 0 S CHOLIC ACID SEQUESTERING AGENT

L20 0 S CHOLIC ACID COMPLEXATION AGENT

L21 88 S CHOLIC ACID (S) (COMPLEX? OR SEQUESTER?)

L22 2 S L21 (L) ?CHOLESTEROL? (L) HDL

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17

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USPT,PGPB,JPAB,EPAB,DWPI	17 with (potassium near2 salt)	15	L14
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USPT,PGPB,JPAB,EPAB,DWPI	17 same (potassium with salt)	45	L12
USPT,PGPB,JPAB,EPAB,DWPI	17 and (potassium)	924	L11
USPT,PGPB,JPAB,EPAB,DWPI	17 and (potassium near gluconate)	0	L10
USPT,PGPB,JPAB,EPAB,DWPI	17 and (calcium near citrate)	10	L9
USPT,PGPB,JPAB,EPAB,DWPI	17 same (calcium near citrate)	2	L8
USPT,PGPB,JPAB,EPAB,DWPI	cholic near acid	2035	L7
USPT,PGPB,JPAB,EPAB,DWPI	((complexation or sequester\$3) with cholic)	5	L6
USPT,PGPB,JPAB,EPAB,DWPI	((complexation or sequestering) with cholic)	0	L5
USPT,PGPB,JPAB,EPAB,DWPI	((complex\$5 or sequester\$3) with cholic) and (metal with salt)	10	L4
USPT,PGPB,JPAB,EPAB,DWPI	(complex\$5 or sequester\$3) with cholic	42	L3
USPT,PGPB,JPAB,EPAB,DWPI	(cholic near acid) same (bile near acid) same cholesterol	89	L2
USPT,PGPB,JPAB,EPAB,DWPI	(Cholic near acid) same (bile near acid)	388	L1